Missile Defense Agency Battery - Update Assessment

EXECUTIVE SUMMARY

The Missile Defense Agency (MDA) Directorate for Producibility (MDA/DEP) tasked the Defense Contract Management Agency's Industrial Analysis Center (DCMA-IAC) to support the MDA/DEP assessment team to analyze the Ballistic Missile Defense System's (BMDS) Industrial Base supporting Battery Systems.

The purpose of the MDA Battery Study was to update the 2003 Battery Industrial & Technology Capability Assessment (ITCA) and to analyze the industrial capability and viability of the MDA Battery industrial base. Sites performing development, manufacture, test, Research and Development (R&D) and assembly of BMDS were analyzed.

The scope of the Study included a survey, site visits, and conduct of ITCAs and Financial Assessments (FAs) of eight prime contractors and six subcontractors performing non-classified battery systems component manufacturing. The study population is based on BMDS applications. In addition, the Study included the identification of sole/single sources, foreign sources/dependencies, and other business and financial risks

The products assessed include primary (nonrechargeable) battery chemistries including thermal, liquid reserve lithium and silver zinc and secondary (rechargeable) battery chemistries including Lithium-ion (Li-ion) and lithium liquid polymer.

Battery overall Industry outlook revealed that MDA/DEP has or will have made substantial investments in the DoD Battery Industry between FY2004-08. MDA/DEP (Title III) funding has been provided to Industry for Thermal and Lithium-ion domestic battery capabilities improvements.

The Battery subcontractor orderbook is well balanced between government and commercial contracts. Several potential battery industrial base single point failures were identified in the assessment

Conclusion

Other than Lithium-ion, BMDS batteries are unique to DoD with no commercial application. The majority of Li-ion battery research and development takes place in Southeast Asia.

This assessment is available on the DCMA Knowledge Management Portal. For access please contact Mr. Joe Rabuck, 215-737-5333, joseph.rabuck@dcma.mil or the authors Messer. Frank Sokolowski, 215-737-0588, francis.sokolowski@dcma.mil or Pete Mulligan, 215-737-8236, peter.mulligan@dcma.mil to request a copy of the full report.